

Attorney's Docket No.: 13292-003001 / 200111518

Applicant : Kamel Ayadi
Serial No. : 10/032,876
Filed : October 24, 2001
Page : 12 of 15

REMARKS

Claims 1 to 32 are pending in this application of which claims 1, 9, 18 and 25 are the independent claims. Favorable reconsideration and further examination are respectfully requested.

Initially, the Examiner objected to the drawings because the drawings did not include reference number "28". Accordingly, Applicant has amended FIG. 1 to include reference number "28". Applicant respectfully requests withdrawal of this objection.

Turning to the prior art rejections, claims 1, 2, 9 to 11, 18 to 20 and 25 to 27 were rejected over Ekstedt et al. (U.S. Patent No. 5,206,582) in view of Yokoyama (U.S. Patent No. 6,484,116). As shown above, Applicant has amended the claims to define the invention more clearly. In view of these amendments, withdrawal of the art rejection is respectfully requested.

Claim 1, as amended, is directed to a system that includes a graphical user interface an input/output device of a computer system. The input/output device provides a graphical user interface (GUI). The system also includes one or more test instruments for producing electrical signals and a probe card having probe needles used for measuring electronic characteristics of devices on a semiconductor wafer. Each device has cells and each cell has bond pads. The bond pads are spaced apart by a multiple of a first distance and a multiple of a second distance. The system further includes a memory to store a predefined set of values for the first distance and for the second distance. Each predefined value corresponds to a temperature. The system includes a matrix switch and an interface conduit electrically connecting the one or more test instruments, the computer system, the probe card, and the matrix switch. The semiconductor

Applicant : Kamel Ayadi
Serial No. : 10/032,876
Filed : October 24, 2001
Page : 13 of 15

Attorney's Docket No.: 13292-003001 / 200111518

wafer is configured to move so that the probe needles measure the electrical characteristics of each cell for each device selected for testing based on a predefined value for the first distance and a predefined value for the second distance. Each predefined value corresponds to a testing temperature.

The applied art is not understood to disclose or suggest the foregoing features of claim 1. In particular, neither Ekstedt nor Yokoyama, taken separately or in combination, disclose or suggest "the semiconductor wafer being configured to move so that the probe needles measure the electrical characteristics of each cell for each device selected for testing based on a predefined value for the first distance and a predefined value for the second distance, each predefined value corresponding to a testing temperature."

Specifically, Ekstedt does not disclose or suggest moving probe needles for testing using predefined values based on temperature much less disclose or suggest using predefined values corresponding to temperature. Ekstadt does describe having XY coordinates corresponding to bond pad locations, but does not describe XY coordinates corresponding to different temperatures (see column 5, lines 14 to 49 of Ekstadt). In fact, Ekstadt does not describe temperature differences at all.

Yokoyama describes testing semiconductor devices. However, Yokoyama does not disclose or suggest using predefined values based on temperature to move probe needles over bond pads to measure the electrical characteristics of devices much less disclose or suggest using predefined values in testing or testing semiconductor devices using different temperatures.


Applicant : Kamel Ayadi
Serial No. : 10/032,876
Filed : October 24, 2001
Page : 15 of 15

Attorney's Docket No.: 13292-003001 / 200111518

Enclosed is a \$420 check for a Two-Month Extension of Time Fee. No other fee is believed to be due; however, if any fee is due please apply such fees to deposit account 06-1050 referencing Attorney Docket Number 13292-003001.

Respectfully submitted,

Date: November 25, 2003


Paul A. Rysher
Reg. No. 40,780

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

20760992.doc